

GORDON RESEARCH CONFERENCES

TITLE: ATHEROSCLEROSIS

DATES: JUNE 17 - 21, 1991

SITE: KIMBALL UNION ACADEMY, MERIDEN, NH

PETER F. DAVIES, Co-Chairman

GODFREY S. GETZ, Co-Chairman

Session 1: GENE ACTIVATION / GENE THERAPY

Chair: Alan Fogelman (UCLA): Overview.

Speakers: Gary Nabel (Michigan): Gene transfer into the arterial wall.
A. Jake Lusis (UCLA): Activation of arterial cell genes.

Session 2: REGULATION OF CELL PROLIFERATION

Chair: Russell Ross (Seattle): Overview.

Speakers: Shaun Coughlin (UCSF): Mechanism of action of the thrombin receptor.
Michael Klagsbrun (Boston): Heparin-binding EGF-like growth factor.

Session 3: FLOW TRANSDUCTION MECHANISMS AT THE VESSEL WALL

Chair: C. Fred Cornhill (Ohio)

Speakers: Seymour Glagov (Chicago): Mechanical determinants of intimal thickening.
William Schilling (Houston): Mass transport mechanisms influencing endothelial transduction.
Frederick Sachs (Buffalo): Stretch activated and inactivated ion channels.

Session 4: CELLULAR INTERACTIONS

Chair: Michael Gimbrone (Boston): Overview.

Speakers: Myron Cybulsky (Boston): Atherosclerotic lesion-specific endothelial activation.
Goran Hansson (Goteborg): T-cells and the atherosclerotic lesion.
David Harrison (Atlanta): Mechanisms of compromised vasorelaxation in hypercholesterolemia and atherosclerosis.

Session 5: MONOCYTE / MACROPHAGE RECEPTORS

Chair: Robert Mahley (San Francisco): Overview.

Speakers: Samuel Silverstein (New York): What macrophages do other than accumulate cholesteryl esters.
Monty Krieger (Boston): Macrophage lipoprotein scavenger receptors.
David Stern (New York): The macrophage advanced glycosylation end-product (AGE) receptor.

Session 6: MECHANISMS OF FOAM CELL FORMATION

Chair: Daniel Steinberg (La Jolla): Overview.

Speakers: Guy Chisolm (Cleveland): Oxidised lipoproteins and cytotoxicity.
Sampath Parthasarathy (UCSD): Mechanisms of lipid peroxidation.
Karl Weisgraber (San Francisco): 3-dimensional structure of apo E.
Colin Hopkins (London): Receptor processing in a continuous endosomal reticulum.

Session 7: GENES INVOLVED IN CELLULAR LIPOPROTEIN UPTAKE AND METABOLISM

Chair: Joseph Goldstein (Dallas): Overview.

Speakers: Wolfgang Schneider (Edmonton): Lipoprotein transport in egg-laying species
Dudley Strickland (Rockville): α_2 M-receptor/LRP: a receptor complex with potential function in proteinase and lipid metabolism.
Jean MacCluer (San Antonio): A population geneticist's approach to identification of major genes.

Session 8: SPECIAL LECTURE:

Michael S. Brown (Dallas): Mevalonate metabolism and cell growth.

Session 9: LP(a) IN ATHEROSCLEROSIS AND HEMOSTASIS

Chair: Angelo Scanu (Chicago): Overview.

Speakers: Helen Hobbs (Dallas): Molecular genetics of Lp(a).
Katherine Hajjar (New York): Lp(a) and coagulation mechanisms.